AGNIBHO ROY

UNIVERSITY OF CALIFORNIA AT BERKELEY

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EDUCATION

University of California, Berkeley   **Fall 2018 - May 2022**
GPA: 3.80/4.00 (Major: 3.87) - Dean's List
- **B.S. Electrical Engineering & Computer Science (EECS)**
- **B.S. Business Administration**
- Relevant Coursework: Algorithms & Intractable Problems, Data Structures, Discrete Math & Probability, Random and Stochastic Processes, Advanced Linear Algebra, Principles & Techniques of Data Science, Operating Systems, Structure & Interpretation of Computer Programs, Information Devices & Systems I & II, Computer Architecture, Finance, Financial Accounting

WORK AND RESEARCH EXPERIENCE

Royal Bank of Canada | **June 2020 - Aug 2020**
Quantitative Research and Trading Intern   *New York City, NY*
- Rotation 1: Global Equity Algorithmic Trading. Rotation 2: Quantitative Strategy Group

Fidelity Investments | *SQL, PL/SQL, C#, AngularJS, ASP.NET*   **May 2019 - Aug 2019**
Software Engineering Intern   *Westlake, TX*
- Improved file transfer pipeline and back-end functionality of e-processing trade documents and added Secure Encryption of cookies.
- implemented PL/SQL procedures for trade transaction maintenance for the Alternative Investments Team Internal Application.

Berkeley EECS Department   **Aug 2019 - Present**
Course Reader - CS70   *Berkeley, CA*
- Leading office hours for Berkeley's discrete mathematics and probability course & teaching in homework and exam review sessions.
- Grading student work, creating assignment rubrics, and providing feedback every week.

PenPath LLC | *SQL, Python, Numpy, Pandas, matplotlib, PostgreSQL, xgboost*   **Jan 2019 - May 2019**
Data Engineer   *St. Louis, MO*
- Performed feature engineering & supervised learning on client data to analyze & visualize trends in key marketing features.
- Implemented predictive models using classification, xgboost, & recursive neural networks techniques to forecast client performance.

Massachusetts Institute of Technology | *Python, matplotlib, Mathematica*   **Jun 2017 - Aug 2017**
Research Intern   *Boston, MA*
- Worked under Professor Jagadeesh Moodera in the MIT physics department, studying condensed-matter Physics and thin films.
- Developed & programmed novel method of modulation doping of Vanadium to improve Curie temperature in topological insulators.

EXTRACURRICULARS

Aurora Consulting | *Director of Finance*   **Aug 2018 - Dec 2019**
- Developing Berkeley's first financial engineering consulting organization, establishing client relationships
- Creating curriculum framework in financial engineering, modeling, analytics, etc. for new club recruits in the fall

Computer Science Mentors (CSM) | *Mentor-CS88, Mentor-CS70, Academic Intern-CS61A*   **Jan 2019 - Present**
- Developing content and leading discussion sessions to develop student understanding in CS61A & CS70 & CS88.

Sigma Alpha Epsilon | *Fraternity Member*   **Jan 2019 - Present**
- Part of Beta Chapter and assisting in community volunteering services and events for UC Berkeley

Tau Beta Pi | *Engineering Honors Member*   **Jan 2019 - Present**
- Performing volunteering activities and services to the local and college engineering community

PERSONAL PROJECTS

Rias | *Python, graphs API, Gtk Widgets*   **Summer 2019 - Present**
- Built cellular automata movement in multiple dimensions using graph state transfer in Python.
- Simulated microorganism movement under alternative energy transfer laws & expanded on of Conway's Game of Life.

Sharitable Interface | *AngularJS, Python, Paypal APIs, Yodlee APIs, Regression*   **Fall 2018**
- Created a platform in Money2020 Hackathon linking 3rd world nations with charities & setting up defined contribution plans.
- Analyzed transaction data using Yodlees datasets to train ML regression algorithm & Paypal's API to create a payment interface.

CERTIFICATIONS

Wharton School of Business	Business and Financial Modeling Specialization	**Summer 2018**

AWARDS

Google Cloud Platform	Diversatech GCP Consulting Competition	**Event Finalist**
Business Professionals of America	Financial Analyst Team Competition	**National Champion**
Math Association of America	American Mathematics Competition	**Distinguished Honor Roll (3-Time)**
Coppell ISD	Class Rank	**Valedictorian**

SKILLS AND INTERESTS

Programming Languages	Python, Java, C, X86/RISC, Scheme, SQL, PL/SQL, AngularJS, C
Libraries and Software	Git, Pandas, Fiddler, numpy, matplotlib, Jupyter, Seaborn, xgboost, BeautifulSoup
Frameworks and DB	BigQuery, PostgreSQL, Django, Spring Boot, ASP.NET, Spark, HTML/CSS
Languages	English (Native)	Bengali, Hindi (Proficient)	Spanish (Limited)